

LIGO PROCESS TRAVELER

DCC Number: **E990267-00-X**

Date Prepared: **6/28/99**

| Originator | Cognizant Engineer | Ext./Phone# | Project | Account Number |
|---------------|--------------------|-------------|---------|----------------|
| Michael Smith | Michael Smith | 2062 | COS | 5F515 |

| Dwg/Part Number | Rev | Part Description | Serial Number | Qty |
|-----------------|-----|---|---------------|-----|
| | | Beam Dump Assemblies, BSC4 | | |
| D980087 | A | “glass retaining bracket, top left, cavity BD” | | 3 |
| D980088 | A | “glass retaining bracket, top right, cavity BD” | | 3 |
| D980092 | A | “glass plate 1, cavity BD” | | 3 |
| D980093 | A | “glass plate 2, cavity BD” | | 3 |
| D980289 | B | “glass mounting plate1, cavity BD” | | 3 |
| D980292 | B | “glass mounting plate2, cavity BD” | | 3 |
| D980296 | A | “glass retaining bracket, bottom left, cavity BD” | | 3 |
| D980297 | A | “glass retaining bracket, bottom right cavity BD” | | 3 |
| D980348 | B | “side plate, cavity BD” | | 6 |
| D980378 | B | “Stiffener Block, cavity BD” | | 3 |
| D980685 | A | “clamp, plate beam dump” | | 12 |
| D990028 | A | Beam Dump Flex Hinge Tongue | | 6 |
| D990029 | A | Beam Dump Flex Hinge Clevis | | 6 |
| D990030 | A | Beam Dump Flex Hinge Tee | | 6 |
| D990031 | A | Beam Dump Flex Hinge Saddle | | 6 |
| D990032 | A | Beam Dump Flex Hinge Attach | | 6 |
| D990033 | A | Beam Dump Flex Hinge Adapter | | 6 |
| D990140 | D | Beam Dump Housing Plate | | 3 |
| D990149 | C | “Cavity Beam Dump, Mounting Bracket Angle “ | | 4 |
| D990150 | B | “Cavity Beam Dump, Mounting Bracket Gusset “ | | 4 |
| D990151 | B | “Cavity Beam Dump, Mounting Bracket Backplate 1” | | 4 |
| D990152 | C | “Cavity Beam Dump, Mounting Bracket Backplate 2” | | 4 |
| D990198 | B | Beam Dump Flex Hinge H_tube | | 4 |
| D990199 | A | Beam Dump Flex Hinge Low Strap | | 6 |

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| Dwg/Part Number | Rev | Part Description | Serial Number | Qty |
|-----------------|-----|---|---------------|-----|
| D990200 | A | Beam Dump Flex Hinge Backup | | 12 |
| D990201 | A | Beam Dump Flex Hinge Cap | | 12 |
| D990202 | B | Beam Dump Flex Hinge Top Strap | | 6 |
| D990207 | B | “rail, plate beam dump” | | 6 |
| D990218 | B | “glass, plate beam dump” | | 3 |
| D990222 | A | Beam Dump Housing Tube 2KBSAR3 | | 0 |
| D990223 | C | Beam Dump Housing Tube 2KFM | | 0 |
| D990225 | D | “Beam Dump Housing Tube 4KITMHR3, 4KITMHR4” | | 0 |
| D990236 | B | “backplate_offset, plate beam dump” | | 0 |
| D990240 | B | “backplate, plate beam dump” | | 2 |
| D990252 | B | “Beam Dump Housing Tube ITMAR1,2KRMHR3” | | 3 |
| D990253 | A | Extension Tube | | 1 |
| D990335 | A | “Beam Dump Flex Hinge H_tube, 2KITMXAR4 “ | | 1 |
| D990336 | A | “Beam Dump Flex Hinge H_tube, 2KITMYAR4” | | 1 |
| WFV-10 | | #10 X 0.31 THK FLAT VENTED WASHER | | 24 |
| WFV-10 | | #10 X 0.31 THK FLAT VENTED WASHER | | 4 |
| 92196A245 | | #10-24 X 0.75 SHCS | | 4 |
| 93615A360 | | #10-24 X 1.00 LOW HD SCS | | 24 |
| WFV-06 | | #6 X 0.016 THK FLAT VENTED WASHER | | 4 |
| 92196A144 | | #6-32 X .25 SHCS | | 4 |
| WFV-08 | | #8 FLAT VENTED WASHER | | 102 |
| 92185A194 | | #8-32 X .50 SHCS | | 102 |
| 91500A194 | | #8-32 X .500 FHPS | | 54 |
| 91944A450 | | 0.406ID X 0.88OD X 0.25 THK SPHER WASH | | 24 |
| 92141A029 | | 1/4 FLAT WASHER | | 48 |
| 92141A029 | | 1/4 FLAT WASHER | | 36 |
| N-2520-A | | 1/4-20 HEX NUT | | 24 |

| Dwg/Part Number | Rev | Part Description | Serial Number | Qty |
|-----------------|-----|---|---------------|-----|
| 93615A410 | | 1/4-20 X .500 LOW HEAD SOCKET SCREW | | 12 |
| 92196A540 | | 1/4-20 X 0.75 SHCS | | 48 |
| 92196A540 | | 1/4-20 X 0.75 SHCS | | 24 |
| 92196A542 | | 1/4-20 X 1.00 SHCS | | 48 |
| C-2016-NA | | "1/4-20 X 1.00 SHCS, AG/SS" | | 48 |
| C-2016-NA | | "1/4-20 X 1.00 SHCS, AG/SS" | | 12 |
| 92196A544 | | 1/4-20 X 1.25 SHCS | | 24 |
| C-2820-NA | | "1/4-28 X 1.25 SHCS, AG/SS" | | 36 |
| 91950A031 | | 3/8 X 0.063 FLAT WASHER | | 3 |
| 91950A031 | | 3/8 X 0.063 FLAT WASHER | | 6 |
| WFV-38 | | 3/8 X0.032 THK FLAT VENTED WASHER | | 3 |
| WFV-38 | | 3/8 X0.032 THK FLAT VENTED WASHER | | 32 |
| WFV-38 | | 3/8 X0.032 THK FLAT VENTED WASHER | | 8 |
| 94804A320 | | 3/8-16 HEX NUT | | 8 |
| N-3816-A | | 3/8-16 HEX NUT | | 6 |
| TOP-1616-NA | | 3/8-16 X 1.00 SOCKT SET SCRW-OVL PT AG/SS | | 12 |
| 90585A626 | | 3/8-16 X 1.25 FLT HD CAP SCREW | | 8 |
| 92186A626 | | 3/8-16 X 1.25 HEX HD SCREW | | 16 |
| C-1620-NA | | "3/8-16 X 1.25 SHCS, AG/SS" | | 12 |
| 92186A630 | | 3/8-16 X 1.75 HEX HD SCREW | | 6 |
| 92196A630 | | 3/8-16 X 1.75 SHCS | | 18 |
| 92186A999 | | 3/8-16 X 7.00 HEX HD SCREW | | 16 |
| 099-966-12-20x | | BERYLLIUM-CU GND STRP | | 12 |

| | |
|--|---|
| Used In (next higher assembly): | D990230, BSC Beam dump Installation, top assembly |
| | |

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DCC Number: **E990267-00-X**

Date Prepared: **6/28/99**

Data Package, Receiving/Inspection Remarks:

| Inspection Required Y/N | Visual Damage Y/N | Comments | Name/Initials | Date Comp. |
|-------------------------|-------------------|--------------------------------------|---------------|------------|
| y | | Inspect for breakage during shipment | | |

Process Flow:

| # | Operation | Start Date | Work Area | Instructions | Name/Initials | Date Comp. |
|---|---------------|------------|-----------|---|---------------|------------|
| 1 | Control Point | NA | NA | | NA | NA |
| 2 | Clean | | LHO | per LIGO-E960022, as applicable | B. Weaver | |
| 3 | wrap and bag | | LHO | per LIGO-E960022 | B. Weaver | |
| 4 | Vacuum Bake | | LHO | per LIGO-E960022 | K. Ryan | |
| 5 | Control Point | | LHO | Review/approve RGA:scan # _____ scan # _____ scan # _____ scan # _____ scan # _____ scan # _____ scan # _____ Note: attach RGA scan(s) to this traveler. | K. Ryan | |

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| # | Operation | Start Date | Work Area | Instructions | Name/ Initials | Date Comp. | | | | | | | | | | | | | | | | | |
|---|---|----------------------|-----------|---|-------------------|-----------------|------|-----|------------------|----------------------|-----|-------|--|-----|--|--|----------------------|------|---|------|--|--|--|
| | Box for shipment to LHO | | | Ship in LIGO-provided container <table border="1"> <thead> <tr> <th>No.</th> <th>Qty per package</th> <th>Part</th> </tr> </thead> <tbody> <tr> <td>ALL</td> <td></td> <td>BSC4 BEAM DUMP PARTS</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table> (see also qty. for each shipping destination below) | No. | Qty per package | Part | ALL | | BSC4 BEAM DUMP PARTS | | | | | | | | | | | | | |
| No. | Qty per package | Part | | | | | | | | | | | | | | | | | | | | | |
| ALL | | BSC4 BEAM DUMP PARTS | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Ship | | | <table border="1"> <thead> <tr> <th rowspan="2">No.</th> <th colspan="3">Ship Qty.</th> <th rowspan="2">Part Description</th> </tr> <tr> <th>LHO</th> <th>LLO</th> <th>Other</th> </tr> </thead> <tbody> <tr> <td></td> <td>all</td> <td></td> <td></td> <td>BSC4 beam dump parts</td> </tr> </tbody> </table> <table border="1"> <tbody> <tr> <td>LHO:</td> <td>Attn: Betsy Weaver, COS LIGO Hanford Observatory (LHO) Specific Purpose: beam dump BSC8</td> </tr> <tr> <td>LLO:</td> <td>Attn: Jonathan Kern LIGO Livingston Observatory (LLO) Specific Purpose: beam dump BSC8</td> </tr> </tbody> </table> | No. | Ship Qty. | | | Part Description | LHO | LLO | Other | | all | | | BSC4 beam dump parts | LHO: | Attn: Betsy Weaver, COS LIGO Hanford Observatory (LHO) Specific Purpose: beam dump BSC8 | LLO: | Attn: Jonathan Kern LIGO Livingston Observatory (LLO) Specific Purpose: beam dump BSC8 | | |
| No. | Ship Qty. | | | Part Description | | | | | | | | | | | | | | | | | | | |
| | LHO | LLO | Other | | | | | | | | | | | | | | | | | | | | |
| | all | | | BSC4 beam dump parts | | | | | | | | | | | | | | | | | | | |
| LHO: | Attn: Betsy Weaver, COS LIGO Hanford Observatory (LHO) Specific Purpose: beam dump BSC8 | | | | | | | | | | | | | | | | | | | | | | |
| LLO: | Attn: Jonathan Kern LIGO Livingston Observatory (LLO) Specific Purpose: beam dump BSC8 | | | | | | | | | | | | | | | | | | | | | | |
| END: Go to Traveler associated with next higher assembly processing | | | | | | | | | | | | | | | | | | | | | | | |

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Special Instructions (Handling/Packaging Constraints, Remarks, etc.) or Notes:

| |
|---|
| Attention: Betsy Weaver, Jonathan Kern, hold cleaned and baked parts for COS assembly |
| |
| |

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